	Application No.	Applicant(s)	· · · · · · · · · · · · · · · · · · ·
	10/699,826	LEE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Prasad R Akkapeddi	2871	And
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication GHTS. This application is subject	pplication. If not included on will be mailed in due co	urse. THIS
1. This communication is responsive to <u>11/04/2003</u> .			
2. The allowed claim(s) is/are 25-35.			
3. $\boxtimes$ The drawings filed on <u>04 November 2003</u> are accepted by	the Examiner.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority un</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents</li> </ul>	been received.  been received in Application No.	s national stage applicatio	n from the
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a repl ENT of this application.	y complying with the requi	rements
5. A SUBSTITUTE OATH OR DECLARATION must be subminification (PTO-152) which give			TICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		0-948) attached	
1) hereto or 2) to Paper No./Mail Date			*
'(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the	Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawne header according to 37 CFR 1.12	vings in the front (not the b	ack) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIC	must be submitted. No CAL MATERIAL.	te the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal	Patent Application (PTO-	152)
2.  Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summar		
<ul> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 11/04/2003</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>			ance

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## **DETAILED ACTION**

## **EXAMINER'S AMENDMENT**

The application has been amended as follows:

## Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The title has been changed as follows: "Method for fabricating a liquid crystal display having a pixel electrode with different surface roughness regions".

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## Allowable Subject Matter

- 2. Claims 25-35 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

A search of the prior art did not disclose a method of fabricating a liquid crystal display comprising a combination of structural elements, more specifically:

- (a) Forming a bottom substrate that has a first region where the liquid crystal molecules bear a first pretilt angle and a second region where the liquid crystal molecules bear a second pre-tilt angle smaller than a first pretilt angle.
- (b) Forming a top substrate that faces the bottom substrate with liquid crystal molecules bearing a third pretilt angle, the third pretilt angle being medium between the first pretilt angle and the second pretilt angle.

The closest prior art by Okano et al. (U.S.Patent No. 5,600,458) does not disclose the above features, but instead teaches that the pixel electrode (14) is formed on an insulating film (20) having a roughened surface on the entire surface (Fig. 2B) and (b) Mizushima et al. (U.S.Patent No. 5,691,792) teaches that the pretilt angles in a first region and the second region are different but does not teach a third pretilt angle being medium between the first and second pretilt angles (Fig. 1).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prasad R Akkapeddi whose telephone number is 571-272-2285. The examiner can normally be reached on 7:00AM to 5:30PM M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RA

Prasad R Akkapeddi, Ph.D Examiner Art Unit 2871

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